UNITED STATES OPEN FILE REPORT 79-154 PUEBLO BONITO NW QUADRANGLE DEPARTMENT OF THE INTERIOR PLATE 6 OF 19 NEW MEXICO-SAN JUAN CO. GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) R. 11 W. R. 10 W. (HUERFAND TRADING POST SW) 107°52′30″ 36°15′ EXPLANATION OVERBURDEN ISOPACHS - Showing thickness of overburden, in foot, from the surface to the top of the Manefee coal seas, which is coincident with the top of the La Ventana Tongue. Isopach interval 200 foet (61 meters). Isopach dashed where inferred. 10 11 12 -1660 --- ---- INTERBURDEN ISOPACHS - Showing thickness of interburden, in feet, within the Memefes coal zone. Isopach intervel 20 foet (6.1 meters). Isopachs dashod where inferred. DRILL HOLE - Showing thickness of over-burden, in feet, (upper number) from the surfece to the top of the Menefee coal some, which is coincident with the top of the La Ventene Tongue, and thickness of interburden, in feet, (lower number) within the Menefee coal some. 1600-1302 • 01661 1193 0 *The lower part of the Memefes coel zons lies below 3,000 feet (914.4 meters) of overburden. Therefore the value shown for this drill hole is not representative of the tetal zone. * 0 1594 15 15 To convert feet to meters, multiply feet by 0.3048. The Menefee coal some extends from the top of the La Ventama Tongue (Cliff House Se) to the base of the Menefee Pm. The La Ventama Tongue and the Hogback Mtu. Tongue (Menefee Pm) interfinger and are contemporaneous. The Henefee some overburden is determined by subtracting the elevation of the top of the La Ventama Tongue (CNO Plate 5) from the ground level elevation. The interburden is the noncoel-bearing portion of the Menefee coal some (i.e. the combined rock thickness of the undifferentiated Menefee Pm and the La Ventama Tongue). 22 22 19 20 21 12'30" -12'30" 1490 O O 1090 1400 27 27 29 26 25 30 33 36 31 T. 23 N. T. 22 N. T. 22 N. 10 10 12 15 14 15 18 21 (PUEBLO BONITO) 4456 III SW SCALE 1:24 000 Base from U.S. Geological Survey, 196 Compiled in 1979 1000 7000 FEET 1 KILOMETER 5 0 NEW MEXICO UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET QUADRANGLE LOCATION COAL RESOURCE OCCURRENCE MAP OF THE PUEBLO BONITO NW logical Survey. QUADRANGLE, SAN JUAN COUNTY, NEW MEXICO PLATE 6

BY

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ISOPACH MAP OF OVERBURDEN AND INTERBURDEN OF THE MENEFEE COAL ZONE